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Nathan L. Binkert, Ali G. Saidi, Steven K. Reinhardt

October 2006 ACM SIGARCH Computer Architecture News, Volume 34 Issue 5

Publisher: ACM

Full text available: [pdf\(420.79 KB\)](#)
[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 336, Citation Count: 2

This paper proposes new network interface controller (NIC) designs that take advantage of integration with the host CPU to provide increased flexibility for operating system kernel-based performance optimization. We believe that this approach is more ...

Keywords: TCP/IP performance, interfaces, network, zero-copy

 2 [A study of iSCSI extensions for RDMA \(ISER\)](#)


Mallikarjun Chadalapaka, Hemal Shah, Uri Elizur, Patricia Thaler, Michael Ko

August 2003 NI CELI '03: Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence experience, lessons, implications

Publisher: ACM

Full text available: [pdf\(281.32 KB\)](#)
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Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 94, Citation Count: 2

The iSCSI protocol is the IETF standard that maps the SCSI family of application protocols onto TCP/IP enabling convergence of storage traffic on to standard TCP/IP fabrics. The ability to efficiently transfer and place the data on TCP/IP networks is ...

Keywords: DA, DDP, DI, Datamover, MPA, RDMA, RDMAP, SCSI, Verbs, iSCSI, ISER, IWARP

 3 [Integrated network interfaces for high-bandwidth TCP/IP](#)


Nathan L. Binkert, Ali G. Saidi, Steven K. Reinhardt

October 2006 ACM SIGOPS Operating Systems Review, Volume 40 Issue 5

Publisher: ACM

Full text available: [pdf\(420.79 KB\)](#)
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#### 4 [Integrated network interfaces for high-bandwidth TCP/IP](#)



Nathan L. Binkert, Ali G. Saidi, Steven K. Reinhardt

November 2006 ACM SIGPLAN Notices, Volume 41 Issue 11

Publisher: ACM

Full text available: pdf(420.79 KB)

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#### 5 [Integrated network interfaces for high-bandwidth TCP/IP](#)



Nathan L. Binkert, Ali G. Saidi, Steven K. Reinhardt

October 2006 ASPLOS-XII: Proceedings of the 12th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: pdf(420.79 KB)

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This paper proposes new network interface controller (NIC) designs that take advantage of integration with the host CPU to provide increased flexibility for operating system kernel-based performance optimization. We believe that this approach is more ...

**Keywords:** TCP/IP performance, interfaces, network, zero-copy

#### 6 [An efficient system-on-a-chip design methodology for networking applications](#)



Valentina Salapura, Christos J. Georgiou, Indira Nair

September 2004 CASES '04: Proceedings of the 2004 international conference on Compilers, architecture, and synthesis for embedded systems

Publisher: ACM

Full text available: pdf(184.23 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 53, Citation Count: 1

This paper presents a System-on-a-Chip design methodology that uses a microprocessor subsystem as a building block for the development of chips for networking applications. The microprocessor subsystem is a self-contained macro that functions as an accelerator ...

**Keywords:** network processor, system-on-a-chip

#### 7 [u-PC: personal workspace on a portable storage](#)



Injung Kim, Min Kyung Hwang, Woojoong Lee, Chanik Park

September 2007 Mobility '07: Proceedings of the 4th international conference on mobile technology applications, and systems and the 1st international symposium on Computer human interaction in mobile technology

Publisher: ACM

Full text available: pdf(705.74 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 16, Citation Count: 0

In these days, people easily meet a public computer at any place. For instance, when visiting someone's office to take part in a meeting, a user usually faces an unfamiliar workspace on the computers. Even if the user has a Microsoft PowerPoint file ...

**Keywords:** UPnP, application, application mobility, file I/O, file and registry hooking, file forwarding, iSCSI, personal workspace, portable storage, registry, user data, user profile, windows kernel

## 8 [FAB: building distributed enterprise disk arrays from commodity components](#)



Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence  
December 2004 ACM SIGOPS Operating Systems Review, Volume 38 Issue 5  
Publisher: ACM

Full text available: [pdf\(671.67 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms review](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 130, Citation Count: 14

This paper describes the design, implementation, and evaluation of a Federated Array of Bricks (FAB), a distributed disk array that provides the reliability of traditional enterprise arrays with lower cost and better scalability. FAB is built from a ...

**Keywords:** consensus, disk array, erasure coding, replication, storage, voting

## 9 [Netchannel: a VMM-level mechanism for continuous, transparent device access during VM migration](#)



Sanjay Kumar, Karsten Schwan  
March 2008 VEE '08: Proceedings of the fourth ACM SIGPLAN/SIGOPS international conference on Virtual execution environments  
Publisher: ACM

Full text available: [pdf\(162.75 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 187, Citation Count: 0

Efficient and seamless access to I/O devices during VM migration coupled with the ability to dynamically change the mappings of virtual to physical devices are required in multiple settings. including blade-servers, datacenters, and even in home-based ...

**Keywords:** I/O devices, live VM migration, virtualization

## 10 [FAB: building distributed enterprise disk arrays from commodity components](#)



Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence  
December 2004 ACM SIGARCH Computer Architecture News, Volume 32 Issue 5  
Publisher: ACM

Full text available: [pdf\(671.67 KB\)](#)


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11 [FAB: building distributed enterprise disk arrays from commodity components](#)

 Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence  
October 2004 ASPLOS-XI: Proceedings of the 11th international conference on Architectural support  
for programming languages and operating systems

Publisher: ACM

Full text available:  pdf(671.67 KB)


Additional Information: full citation, abstract, references, cited by, index terms  
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November 2004 ACM SIGPLAN Notices, Volume 39 Issue 11

Publisher: ACM

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Keywords: consensus, disk array, erasure coding, replication, storage, voting

13 [Storage-based file system integrity checker](#)

 Mohammad Banikazemi, Dan Poff, Bulent Abali

November 2005 StorageSS '05: Proceedings of the 2005 ACM workshop on Storage security and survivability

Publisher: ACM

Full text available:  pdf(144.71 KB)


Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 70, Citation Count: 0

In this paper we present a storage based intrusion detection system (IDS) which uses time and space efficient point-in-time copy and performs file system integrity checks to detect intrusions. The storage system software is enhanced to keep track of ...

Keywords: file system integrity check, storage-based intrusion detection

14 [Interview: A Conversation with Jim Gray](#)

 June 2003 Queue, Volume 1 Issue 4

Publisher: ACM

Full text available:  pdf(151.62 KB)

 html(36.47 KB)

Additional Information: full citation, cited by, index terms


Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 90, Citation Count: 10

15 [Red hat enterprise Linux cluster suite](#)

Khurram Shiraz

November 2007 Linux Journal, Volume 2007 Issue 163

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html \(\\$4.69 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 330, Citation Count: 0


The trusty Red Hat cluster.

16 [An overview of Virtual Machine \(VM\) technology and its implementation in I.T. student labs](#)[Utah Valley State College](#)

George D. Hickman

June 2008 Journal of Computing Sciences in Colleges, Volume 23 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf \(46.40 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 181, Citation Count: 0

Businesses and industry are rapidly integrating Virtual Machine (VM) technology into their IT infrastructure to lower power, cooling, and space requirements in the data center. Properly configured VMs increase both uptime and security. VMs are also implemented ...

17 [Self-migration of operating systems](#)

Jacob Gorm Hansen, Eric Jul

September 2004 EW 11: Proceedings of the 11th workshop on ACM SIGOPS European workshop

Publisher: ACM

Full text available:  [pdf \(111.85 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 123, Citation Count: 5


This paper is about on-the-fly migration of entire operating systems between physically different host computers. Resource allocation is often static; using migration allows applications to dynamically change bindings between programs and physical hosts ...

18 [Jockey: a user-space library for record-replay debugging](#)

Yasushi Saito

September 2005 AADEB'05: Proceedings of the sixth international symposium on Automated analysis-driven debugging

Publisher: ACM

Full text available:  [pdf \(159.94 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 74, Citation Count: 7

Jockey is an execution record/replay tool for debugging Linux programs. It records invocations of system calls and CPU instructions with timing-dependent effects and later replays them deterministically. It supports process checkpointing to diagnose ...


Keyw ords: Linux, checkpointing, debugging, execution record and replay, jockey, keywords, x86

19 [New products](#)

Linux Journal Staff

September 2007 Linux Journal, Volume 2007 Issue 161

Publisher: Specialized Systems Consultants, Inc.



Full text available:  [html\(26.89 KB\)](#)

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